



ATTORNEY DOCKET: 13455.09901
PATENT

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AUG 09 2001

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Patent application of:
Duncan McGregor

Serial No.: 09/486,882

Group Art Unit: 1627

Filed: March 2, 2000

Examiner: P. Ponnaluri

For: CHIMERIC BINDING PEPTIDE
LIBRARY SCREENING METHOD

SUBMISSION OF SEQUENCE LISTING

Commissioner of Patents
Washington, D.C. 20231

Sir:

This is in response to Paper No. 6 mailed July 3, 2001 requesting
compliance of the sequence rules.

Please find enclosed herewith the following:

1. Sequence listing in computer readable form;
2. Sequence listing in paper form;
3. Declaration of Sophie Coret indicating that there is no new
matter with respect to the listing already on file.

Applicant believes that all of the above satisfy the requirements of 37

C.F.R. 1.821-1.825.



ATTORNEY DOCKET: 13455.00001
PATENT

Respectfully submitted,

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**CERTIFICATE OF MAILING
UNDER 37 C.F.R. 1.8(a)**

I hereby certify that this paper, along with any paper referred to as being attached or enclosed, is being deposited with the United States Postal Service on the date indicated below, with sufficient postage, as first class mail, in an envelope addressed to: Commissioner for Patents, Washington, DC 20231

BY: _____

DATE: _____

8-3-01



SEQUENCE LISTING

<110> Rowett Research Institute Services limited

<120> Chimeric binding peptide library screening method

<130> P22410-/scr/bou

<140> PCT GB98/02630

<141> 1998-09-02

<160> 78

<170> PatentIn Ver. 2.0

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<211> 521

<212> DNA

<213> Recombinant human oestrogen

<220>

<221> CDS

<222> (41) .. (475)

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Pro Thr Ala Ala Ala Gly Leu Leu Leu Leu Ala Ala Gln Pro Ala Met
10 15 20

gcc caa gtg cag ctg cag taa tag gcg gcc gca ggg gga gga ggg tcc 151
Ala Gln Val Gln Leu Gln Ala Ala Ala Gly Gly Gly Gly Ser
25 30 35

atg gaa tct gcc aag gag act cgc tac tgt gca gtg tgc aat gac tat 199
Met Glu Ser Ala Lys Glu Thr Arg Tyr Cys Ala Val Cys Asn Asp Tyr
40 45 50

gct tca ggc tac cat tat gga gtc tgg tcc tgt gag ggc tgc aag gcc 247
Ala Ser Gly Tyr His Tyr Gly Val Trp Ser Cys Glu Gly Cys Lys Ala
55 60 65

ttc ttc aag aga agt att caa gga cat aac gac tat atg tgt cca gcc 295
Phe Phe Lys Arg Ser Ile Gln Gly His Asn Asp Tyr Met Cys Pro Ala
70 75 80 85

acc aac cag tgc acc att gat aaa aac agg agg aag agc tgc cag gcc 343
 Thr Asn Gln Cys Thr Ile Asp Lys Asn Arg Arg Lys Ser Cys Gln Ala
 90 95 100

tgc cgg ctc cgt aaa tgc tac gaa gtg gga atg atg aaa ggt ggg ata 391
 Cys Arg Leu Arg Lys Cys Tyr Glu Val Gly Met Met Lys Gly Gly Ile
 105 110 115

cga aaa gac cga aga gga ggg aga atg ttg aaa cac aag cgc cag aga 439
 Arg Lys Asp Arg Arg Gly Gly Arg Met Leu Lys His Lys Arg Gln Arg
 120 125 130

gat gat ggg gag ggc agg ggt gaa gtg ggg tct tga taatcaggtc 485
 Asp Asp Gly Glu Gly Arg Gly Glu Val Gly Ser
 135 140 145

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Trp Ser Cys Glu Gly Cys Lys Ala Phe Phe Lys Arg Ser Ile Gln Gly
 35 40 45

His Asn Asp Tyr Met Cys Pro Ala Thr Asn Gln Cys Thr Ile Asp Lys
 50 55 60

Asn Arg Arg Lys Ser Cys Gln Ala Cys Arg Leu Arg Lys Cys Tyr Glu
 65 70 75 80

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Val Gly Ser
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gag cag ttg aaa tct gga act gcc tct gtt gtg tgc ctg ctg aat aac 96
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ttc tat 102
 Phe Tyr

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 <211> 34
 <212> PRT
 <213> human

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Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp

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25

30

gag cag ttg aaa tct gga act gcc tct gtt gtg tgc ctg ctg aat aac 144

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Phe Tyr

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40

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Phe Tyr

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<213> Recombinant human oestrogen

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<222> (41)..(475)

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Ala Glu Val Gln Leu Gln           Ala Ala Ala Gly Gly Gly Gly Ser
           25           30           35

atg gaa tct gcc aag gag act cgc tac tgt gca gtg tgc aat gac tat      199
Met Glu Ser Ala Lys Glu Thr Arg Tyr Cys Ala Val Cys Asn Asp Tyr
           40           45           50

gct tca ggc tac cat tat gga gtc tgg tcc tgt gag ggc tgc aag gcc      247
Ala Ser Gly Tyr His Tyr Gly Val Trp Ser Cys Glu Gly Cys Lys Ala
           55           60           65

ttc ttc aag aga agt att caaggga cat aac gac tat atg tgt cca gcc      295
Phe Phe Lys Arg Ser Ile Gln Gly His Asn Asp Tyr Met Cys Pro Ala
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Thr Asn Gln Cys Thr Ile Asp Lys Asn Arg Arg Lys Ser Cys Gln Ala
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tgc cgg ctc cgt aaa tgc tac gaa gtg gga atg atg aaa ggt ggg ata      391
Cys Arg Leu Arg Lys Cys Tyr Glu Val Gly Met Met Lys Gly Gly Ile
           105           110           115

cga aaa gac cga aga gga ggg aga atg ttg aaa cac aag cgc cag aga      439
Arg Lys Asp Arg Arg Gly Gly Arg Met Leu Lys His Lys Arg Gln Arg
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120

125

130

gat gat ggg gag ggc agg ggt gaa gtg ggg tct tga taatcaggtc 485
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20

25

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<212> PRT

<213> Recombinant human oestrogen

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5

10

15

Tyr Cys Ala Val Cys Asn Asp Tyr Ala Ser Gly Tyr His Tyr Gly Val

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25

30

Trp Ser Cys Glu Gly Cys Lys Ala Phe Phe Lys Arg Ser Ile Gln Gly

35

40

45

His Asn Asp Tyr Met Cys Pro Ala Thr Asn Gln Cys Thr Ile Asp Lys

50

55

60

Asn Arg Arg Lys Ser Cys Gln Ala Cys Arg Leu Arg Lys Cys Tyr Glu

65

70

75

80

Val Gly Met Met Lys Gly Gly Ile Arg Lys Asp Arg Arg Gly Gly Arg

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90

95

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Val Gly Ser
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<222> (41)..(478)

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Pro Thr Ala Ala Ala Gly Leu Leu Leu Leu Ala Ala Gln Pro Ala Met
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Ala Glu Met Glu Ser Ala Lys Glu Thr Arg Tyr Cys Ala Val Cys Asn
25 30 35

gac tat gct tca ggc tac cat tat gga gtc tgg tcc tgt gag ggc tgc 199
Asp Tyr Ala Ser Gly Tyr His Tyr Gly Val Trp Ser Cys Glu Gly Cys
40 45 50

aag gcc ttc ttc aag aga agt att caa gga cat aac gac tat atg tgt 247
Lys Ala Phe Phe Lys Arg Ser Ile Gln Gly His Asn Asp Tyr Met Cys
55 60 65

cca gcc acc aac cag tgc acc att gat aaa aac agg agg aag agc tgc 295
Pro Ala Thr Asn Gln Cys Thr Ile Asp Lys Asn Arg Arg Lys Ser Cys
70 75 80 85

cag gcc tgc cgg ctc cgt aaa tgc tac gaa gtg gga atg atg aaa ggt 343
Gln Ala Cys Arg Leu Arg Lys Cys Tyr Glu Val Gly Met Met Lys Gly
90 95 100

ggg ata cga aaa gac cga aga gga ggg aga atg ttg aaa cac aag cgc 391
Gly Ile Arg Lys Asp Arg Arg Gly Gly Arg Met Leu Lys His Lys Arg
105 110 115

cag aga gat gat ggg gag ggc agg ggt gaa gtg ggg tct ggg gga gga 439
 Gln Arg Asp Asp Gly Glu Gly Arg Gly Glu Val Gly Ser Gly Gly Gly
 120 125 130

ggg tcg gcc cag ccg gcc ctc ctg cag ctg gcg gcc gca taactgattg 488
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Cys Ala Val Cys Asn Asp Tyr Ala Ser Gly Tyr His Tyr Gly Val Trp
 35 40 45

Ser Cys Glu Gly Cys Lys Ala Phe Phe Lys Arg Ser Ile Gln Gly His
 50 55 60

Asn Asp Tyr Met Cys Pro Ala Thr Asn Gln Cys Thr Ile Asp Lys Asn
 65 70 75 80

Arg Arg Lys Ser Cys Gln Ala Cys Arg Leu Arg Lys Cys Tyr Glu Val
 85 90 95

Gly Met Met Lys Gly Gly Ile Arg Lys Asp Arg Arg Gly Gly Arg Met
 100 105 110

Leu Lys His Lys Arg Gln Arg Asp Asp Gly Glu Gly Arg Gly Glu Val
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Gly Ser Gly Gly Gly Gly Ser Ala Gln Pro Ala Leu Leu Gln Leu Ala
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Ala Ala
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 tcc ctg aga ctc tcc tgt gca gcc tcg gga ttc ccc ttt agt act tat 96
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Pro Phe Ser Thr Tyr
 20 25 30
 ggc atg cac tgg cgc cag gct gtc cca ggc aag ggg ctg gag tgg gtg 144
 Gly Met His Trp Arg Gln Ala Val Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 gca gtt ata tca tat gat gga agt aat aaa tac tac gca gac tcc gtg 192
 Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
 50 55 60
 aag ggc cga ttc acc atc tcc aga gac aat tcc aag aac acg ttg tat 240
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 ctg caa atg aac agc ctg aga gct gag gac acg gct gtg tat tac tgt 288
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 gcg aga gat tta gac ccc acc agg tat agc agt ggc tgg gac act gac 336
 Ala Arg Asp Leu Asp Pro Thr Arg Tyr Ser Ser Gly Trp Asp Thr Asp
 100 105 110
 tac tgg ggc cag ggg cac ctg gtc act gtc tcc tca 372
 Tyr Trp Gly Gln Gly His Leu Val Thr Val Ser Ser
 115 120

<210> 16
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Gly Met His Trp Arg Gln Ala Val Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

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20 25 30

tcc tta gcc tgg tac caa cag aaa cct ggc cag gct ccc agg ctc ctc 144
Ser Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45

atc tat ggt gca tcc acc agg gcc act ggt atc cca gcc agg ttc agt 192
 ile Tyr Gly Ala Ser Thr Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser
 50 55 60

ggc agt ggg tca ggg aca caa ttc act ctc acc atc agc agc ctg cag 240
 Gly Ser Gly Ser Gly Thr Gln Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80

tct gaa gat ttt gca gtt tat tac tgt cag cag tat aat ttc tgg cca 288
 Ser Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Asn Phe Trp Pro
 85 90 95

ttc act ttt ggc cct ggg acc aag ctg gag atc aaa cgt 327
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 <212> PRT
 <213> Human

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Ser Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45

Ile Tyr Gly Ala Ser Thr Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Gln Phe Thr Leu Thr Ile Ser Ser Leu Gln
 65 70 75 80

Ser Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Asn Phe Trp Pro
 85 90 95

Phe Thr Phe Gly Pro Gly Thr Lys Leu Glu Ile Lys Arg
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gactgttgaa ag

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<211> 32

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<211> 16

<212> DNA

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<211> 25

<212> DNA

<213> Artificial Sequence

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<210> 29

<211> 41

<212> DNA

<213> Artificial Sequence

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<212> DNA

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<212> DNA

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<210> 37

<211> 24

<212> DNA

<213> Artificial Sequence

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<211> 24

<212> DNA

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<211> 39

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic DNA

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39

<210> 52

<211> 39

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic DNA

<400> 52

gtcacttgcg gccgctaca gtgtggcctt gttggcttg

39

<210> 53

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic DNA

<400> 53

tctggcggtg gcggatcgga catccagatg acccagtctc c

41

<210> 54

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic DNA

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tctggcggtg gcggatcgga tggtgtgatg actcagtctc c

41

<210> 55

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic DNA

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41

<210> 56

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic DNA

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41

<210> 57

<211> 41

<212> DNA

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<223> Description of Artificial Sequence: synthetic DNA

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41

<210> 58

<211> 41

<212> DNA

<213> Artificial Sequence

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ttctcgtgcg gccgcctaac gtttgatctc caccttggtc cc

42

<210> 63

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic DNA

<400> 63

ttctcgtgcg gccgcctaac gtttaatctc cagtcgtgtc cc

42

<210> 64

<211> 41

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic DNA

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41

<210> 65

<211> 41

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic DNA

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tctggcgggtg gcggatcgca gtctgccctg actcagcctg c

41

<210> 66

<211> 41

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic DNA

<400> 66

tctggcggtg gcggatcgtc ctatgtgctg actcagccac c

41

<210> 67

<211> 41

<212> DNA

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<223> Description of Artificial Sequence: synthetic DNA

<400> 67

tctggcggtg gcggatcgtc ttctgagctg actcaggacc c

41

<210> 68

<211> 41

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic DNA

<400> 68

tctggcggtg gcggatcgca cggtatactg actcaaccgc c

41

<210> 69

<211> 41

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic DNA

<400> 69

tctggcggtg gcggatcgca ggctgtgctc actcagccgt c

41

<210> 70

<211> 41

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic DNA

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tctggcggtg gcggatcgaa ttttatgctg actcagcccc a

41

<210> 71

<211> 42

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic DNA

<400> 71

ttctcgtgcg gccgcctaac ctaggacggt gaccttggtc cc

42

<210> 72

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic DNA

<400> 72

ttctcgtgcg gccgcctaac ctaggacggt cagcttggtc cc

42

<210> 73

<211> 42

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic DNA

<400> 73

ttctcgtgcg gccgcctaac ctaaaacggt gagctgggtc cc

42

<210> 74

<211> 18

<212> DNA

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<223> Description of Artificial Sequence: synthetic DNA

<400> 74

cgatccgcca ccgccaga

18

<210> 75

<211> 18

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic DNA

<400> 75

gtctcctcag gtggaggc

18

<210> 76

<211> 54

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic DNA

<400> 76

cgatccgcca ccgccagagc cacctccgcc tgaaccgcct ccacctgagg agac

54

<210> 77

<211> 38

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic DNA

<400> 77

tcaggtcaga gtgacctgag ctaaaataac acattcag

38

<210> 78

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic DNA

<400> 78

agtccagtct cactggactc gattttattg tgtaagtc

38